**Sustainability Course Inventory 2019**

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Reviewed and Revised by:

**Sustainability Focused Courses:**

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| Acc 305 | Sustainability Accounting and Reporting | This course will focus on the Sustainability Accounting Standards, as developed by the Sustainability Accounting Standards Board (SASB), and how those standards could be Undergraduate courses : All courses by category 207 used by organizations to enhance financial reporting and disclosure. SASB standards identify sustainability topics that are likely to affect the financial condition and operating performance of an organization. This course can be used to assist the student in preparing for the Fundamentals of Sustainability Accounting exam. |
| Bio 115 | Ecology and Evolution | An introductory course that examines fundamental principles related to the evolution of life on earth and the ecological relationships between living things and their environment. The course also explores the application of ecological and evolutionary principles to enduring interdisciplinary questions: What does it mean to be human, created in God's image, and charged with restoring ecological systems? |
| Bio 205 | Pollinators in Peril | What is causing a rapid decline in global pollinator populations? The answer is of immediate concern because many human crops are pollinated by bee, butterfly, bird, or bat species. Recent bee declines will be used as a model to understand the multiple forces impacting all pollinators. Labs will involve hands-on work with bee hives, in addition to field experiments. |
| Bio 207 | Roots of the Environmental Crisis | What are the roots of our current environmental crisis? Can religious, economic, cultural, political, and/or biological worldviews help us understand the challenges? The course will analyze our local use of natural resources (both on campus and in Goshen city). The course will center on giving students opportunities to propose (and implement) restorative solutions. |
| Bio 210 | Biology of the Sea | An introductory course that immerses students in exploring the ecology of the Florida Keys ecosystem. |
| Bio 212 | Empathic Animals | Explores conflict, violence and peace in human interaction with animal life. Perspectives from animal behavior, sociology, ethics, religion, agriculture, and conservation will illumine the precarious balance humanity faces in sustaining or exploiting lives that share this planet with us. A Peacemaking course in the Goshen Core. |
| Bio 222 | Soil Science | A comprehensive introduction to the field of soil science with emphasis on scientific principles and their application to solve practical soil management problems. Topics will include soil formation, soil physical properties, soil organisms and ecology, and practical nutrient management. |
| Bio 304 | Marine Biology | An intensive field-based class that explores the marine ecology of the Florida Keys. Includes a comprehensive collaborative field research project. |
| Bio 324 | Restorative Ecology | This course applies ecological paradigms toward restoration of degraded and damaged systems. Field components at Merry Lea Environmental Learning Center will allow students to gain experience in a variety of restoration techniques relevant to prairie, Academic departments and courses: Biological sciences 87 wetland, and forest habitats. Team-taught by professors with interests in merging theoretical ecology with practical ecological restoration. |
| Bio 335 | Natural Resources Seminar | A broad survey course that investigates policies regulating natural resources. The class covers the rationale, content, process and origins of contemporary state, tribal, federal and international resource policies. |
| Bio 340 | Field Experience Environmental Education | Explores conflict, violence and peace in human interaction with animal life. Perspectives from animal behavior, sociology, ethics, religion, agriculture, and conservation will illuminate the precarious balance humanity faces in sustaining or exploiting lives that share this planet with us. A Peacemaking course in the Goshen Core. |
| Bus 325 | Business Strategies for Sustainability | Students will examine how businesses develop a competitive advantage through the integration of sustainability and strategy, insulating themselves from risks in an ever changing global environment. This course will go beyond the triple bottom line to dig into specific topics like biomimicry and radical waste reduction strategies. Multiple trips to relevant business and industrial sites around the region will bring in-class topics into sharper focus as students see what actual strategy application looks like. Prerequisite: 9 credit hours of ACC, BUS, ECON and/or SUST courses. |
| Bus 335 | Sustainability Reporting | This course focuses on an environmental, social, and governance reporting framework for organizations. Students will learn to identify, measure, evaluate, and communicate sustainability issues that are likely to affect the financial condition and operating performance of an organization. Prerequisite: Acc 201 or Sust 201, or Econ 345. |
| Core 160 | GC Sem: Energy and Environment | Humankind has built an amazing civilization on planet Earth by exploiting fossil fuels. Now we confront challenges such as climate change, the limits of oil extraction, and our impact on other species. An understanding of physics, particularly of energy, is key to identifying promising solutions. A GC Seminar and Natural World course in the Goshen Core. Prerequisites: CORE 110 or equivalent, quantitative literacy. |
| Core 300 | Global Issues | This course will focus on the global issue of gender, particularly how cultural constructions of gender impact individuals, families, and communities. After examining sociological frameworks for understanding gender, we will study women’s movements around the world.. As part of the study of culturally-specific constructions of gender, students will analyze their own gender identity, their culture’s construction of gender, and the way gender is related to historical and current experiences around the globe. |
| Econ 309 | Environmental Economics | In this course we consider how economic activity affects the environment and how environmental destruction can, in turn, harm the economy. We apply the concepts of externalities, public goods and open-access resources to topics such as air pollution, climate change and green business practices. |
| Econ 345 | Economics of Sustainability | This course explores the transformation necessary to create a sustainable economy using a triple-bottom-line perspective: planet, people, and profit. Students will learn about the organizational and structural changes required to promote a sustainable economy, focusing on the objectives of sustainable scale, just distribution and efficient allocation as well as public- and private-sector strategies to support the transition from carbon-based resources to renewables. Prerequisite: Econ 203 or Econ 309. |
| Hist 345 | Environmental History | A comparative studies in world history course. Exploration of human interaction with the environment over time particularly in the non-Western world. Examination of the material and ideological conditions which have led to preservation or destruction of the environment through a comparative case-study approach. |
| Phys 215 | Climate Change | How can and should humans relate to nature? This question raises vigorous, passionate, and political discussion. Using an interdisciplinary approach, students explore (a) how information is generated, refined, and debated in scientific disciplines, (b) how science, archaeology and other disciplines shed light on Earth's climate beyond the horizon of a few generations' experience, and (c) how past cultures reacted to environmental challenges. The class includes laboratory activities, but within the constraints of a 3 credit hour course. Required for elementary education majors. A Natural World course in the Goshen Core. Pre- or Corequisite: Quantitative Literacy. |
| PJCS 347 | Restorative Justice | Begins with an account of some of the classic and mainstream understandings of justice and then moves on to an overview of the foundational principles of restorative justice and its various practical applications. The course will examine and address the needs of victims, offenders, communities and broader systems. It will specifically examine the Victim Offender Reconciliation (VORP) model and its role in the North American criminal justice system. It will also examine models from other contexts such as family group conferences and circles. |
| PoSc 205 | Sustainability Policy | The course will provide an understanding of sustainability policy in order to strengthen students' ability to understand, interpret, and react to future developments. Emphasis will be on how existing and evolving judicial, statutory, and regulatory environments influence organizational approaches to protecting, managing and/or using sustainable resources. Participants will understand the interplay of various policy drivers in shaping policy, and how they fit into the policy process regardless of their role in society. |
| Soc 320 | Environmental Sociology | A survey of environmental sociology including theories of human-environment interaction, a history of various environmental movements and other developments with significant ecological implications, cross cultural comparisons of human-environment relations, and questions of justice with relation to who decides about resource use and who suffers the effects of environmental degradation. |
| Soc 322 | Social Policy and Programs | (Cross-listed from SoWk 322) Economic and social justice is used as an organizing framework to study the relationship between major social problems and social welfare policy, programs and services. Included are poverty, health and mental-health care, family problems, racism, sexism and other forms of institutionalized oppression. The political aspects of social welfare policy and the legislative process itself are examined in depth. Prerequisites: SoWk 221, 224, or consent of instructor. |
| SoWk 322 | Social Welfare Policy and Programs 1 | Economic and social justice is used as an organizing framework to study the relationship between major social problems and social welfare policy, programs and services. Included are poverty, health and mental-health care, family problems, racism, sexism and other forms of institutionalized oppression. The political aspects of social welfare policy and the legislative process itself are examined in depth. Prerequisites: SoWk 221, 224 or consent of instructor. |
| Sust 155 | Topics: Sustainability Seminar | This course is designed to provide space for discussion and synthesis among students from all three of the sustainability-themed majors. This will allow students to integrate learning in their various courses, and gain perspective from their peers in related fields. |
| Sust 200 | Sustainable Living Skills | Introduction to basic skills and decision-making for more sustainable living. Scheduled over one weekend in spring semester at Merry Lea, but also includes online assignments throughout the semester. Addresses how matter, energy and information flow through a human activity or production and how sustainable choices can shift those flows to increase personal health, health of the planet, and eco-justice. Repeatable course. |
| Sust 201 | Intro to Sustainability | Students will explore the nature of complex socio-ecological systems and patterns of problems and dynamics within those systems. The "triple bottom line" (people - planet - profit) will be a primary framework through which sustainability solutions will be explored. Undergraduate courses : All courses by category 283 An emphasis will be placed on understanding how a wide range of solutions in various situations have worked, and how changes to the systems were possible. |
| Sust 205 | Sustainability Policy | The course will provide an understanding of sustainability policy in order to strengthen students' ability to understand, interpret, and react to future developments. Emphasis will be on how existing and evolving judicial, statutory, and regulatory environments influence organizational approaches to protecting, managing and/or using sustainable resources. Participants will understand the interplay of various policy drivers in shaping policy, and how they fit into the policy process regardless of their role in society. |
| Sust 210 | Animal Husbandry | This course introduces a range of issues pertaining to livestock care, breeding, and behavior. Topics covered will include livestock species history, anatomy, ecological niches, economic value of livestock species in farming operations, and social and ethical concerns around raising livestock. Will involve regional farm visits, interaction with veterinarians, and hands-on animal care at Merry Lea Sustainable Farm. This course constitutes one of the courses taught during Merry Lea's Agroecology Summer Intensive. Permission of the Agroecology Program Director is required. |
| Sust 215 | Food Systems | This discussion-based course frames the interdisciplinary nature of food and includes a systems approach to thinking about how food gets from soil to table. Attention will be given to understanding a definition of a food system, and wrestling with how to identify, measure, and implement elements of sustainability into any food system. Discussion topics will include the natural resources of food production, human actors in food systems, food distribution, food processing and the food industry, food policy and food activism, as well as unifying cultural and spiritual aspects of food. This course constitutes one of the courses taught during Merry Lea's Agroecology Summer Intensive. Permission of the Agroecology Program Director is required. |
| Sust 298 | Ecology and Sustainability in India | This course focuses on the intense connection between ecological context and human society by studying across the steep elevation gradient between the North Indian Plains and the Himalaya Mountains. Students will examine the ways that social structures and practices contribute to or detract from the sustainability of human life in diverse landscapes. The course will included project-based analysis of sustainability strategies with an eye towards their applicability in the North American context. |
| Sust 300 | Sustainability and Regeneration | An interdisciplinary course that integrates the theory and practice of sustainable living. It will examine the interaction between human social systems and natural ecological systems in buildings, transportation, food, land use, and energy generation at a global scale, a national scale, and a personal scale within the learning community at Rieth Village. Students will examine the conflicts and issues that have resulted from personal and societal choices and seek regenerative responses to these consequences. Taught as part of Sustainability Leadership Semester at Merry Lea. A possible Social World Perspectives course in the Goshen Core (limit of one Perspectives course from the Sustainability Leadership Semester). |
| Sust 309 | Faith, Ethics and Eco-Justice | This course examines the way the contemporary ecological crisis has challenged Christians to reread their Bibles and rework their theology and ethics. Students will encounter key thinkers and ordinary people faced with environmental problems and assess the ways they have applied Christian faith in a variety of ecological, cultural and theological contexts. The course will emphasize peacemaking and eco-justice as essential to environmental problem solving. A possible Religious World Perspectives Goshen College Catalog 2018-2019 284 course in the Goshen Core (limit of one Perspectives course from the Sustainability Leadership Semester). |
| Sust 313 | Freshwater Resources | This course examines the physical, chemical and biological variables of freshwater lakes, streams and wetlands, which influence living organisms in these aquatic ecosystems. Emphasis on how their interactions contribute to the environmental, economic and social health of watersheds that make up every landscape. Taught as part of the Sustainability Leadership Semester at Merry Lea. A possible Natural World Perspectives course in the Goshen Core (limit of one Perspectives course from the Sustainability Leadership Semester). |
| Sust 316 | Cropping Systems | This course provides an understanding of plant growth and development and production and management of annual and perennial crops from planting to harvest, including vegetables, herbs, fruit, forages, and grains. Course will also cover botany of food crops, plant propagation techniques, cropping tools and equipment, post-harvest handling, and alternative crops in light of climate change resilience. The course includes an overview of soil formation and soil physical properties, but will focus on demonstrating common soil management techniques. Topics include soil organisms and ecology, nutrient management, soil testing, and regenerative practices that improve both soil health and agricultural productivity. Students are introduced to the diverse soils of northern Indiana and gain hands-on soil management skills. Students will practice production and soil management techniques at Merry Lea Sustainable Farm. This course is taught during Merry Lea's Agroecology Summer Intensive. Permission of the Agroecology Program Director is required. |
| Sust 318 | Agroecology | Course investigates the ecological and social systems involved in and affected when manipulating natural systems to produce food, feed, fiber and medical products. Students are given tools to critically assess landscapes for both their agriculture merits and ecological features. Topics will include the theoretical basis of agroecology, social movements in agricultural history, biological life cycles and nutrient cycles, and alternative agricultural production systems. This course constitutes one of the courses taught during Merry Lea's Agroecology Summer Intensive. Permission of the Agroecology Program Director is required. |
| Sust 320 | Environmental Policy and Politics | Explores the environmental policy-making process with specific attention to water and land management policy in the Elkhart River watershed. Investigates the differences between, as well as the overlap of, local, state and federal water policy. Analyzes how the intersection of socioeconomic forces with scientific data shapes policy development and implementation. Includes a critical and normative analysis of current policy with an assessment of the future role of students in creating and implementing policy. Taught as part of the Sustainability Leadership Semester at Merry Lea. A possible Social World Perspectives course in the Goshen Core (limit of one Perspectives course from the Sustainability Leadership Semester). |
| Sust 330 | Environmental Problem Solving | Each student will complete a collaborative research project based on a complex environmental issue from the local context and propose responses that promote sustainability. The project will include relevant literature, data collection, analysis of data, and written and oral presentations of findings. Students will demonstrate the intersection of landscape dynamics with faith, policy, and sustainability concepts. Taught as part of the Sustainability Leadership Semester at Merry Lea. |
| Sust 340 | Field Experience in Environmental Education | Participants will develop and conduct interpretive programs in nature study for visiting Undergraduate courses : All courses by category school groups; observe practices related to managing a natural area and participate in discussions of environmental issues. Instruction takes place at the Merry Lea Environmental Learning Center. Enrollment by permission of instructor only. |
| WGS 322 | Social Policy and Programs | (Cross-listed from SoWk 322) Economic and social justice is used as an organizing framework to study the relationship between major social problems and social welfare policy, programs and services. Included are poverty, health and mental-health care, family problems, racism, sexism and other forms of institutionalized oppression. The political aspects of social welfare policy and the legislative process itself are examined in depth. Prerequisites: SoWk 221, 224, 321 or consent of instructor. |
| WGS 334 | Race, Class and Ethnic Relations | (Cross-listed from Soc 334) A study of race/ethnic group interaction, gender and class dynamics focusing on marginalized groups in the U.S. Attention is given to social class, power and majority-group dominance as factors in assimilation and culture-loss or Goshen College Catalog 2018-2019 290 collective self-determination and maintenance of cultural pluralism. Prerequisite: Soc 200 or consent of instructor. |

**Sustainability Inclusive Courses:**

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| Bio 308 | General Entomology | A general study of insect structure, development, classification and habits. Laboratory sessions particularly directed at identification of insects and their economic roles. |
| Comm 206 | Communication Across Cultures | A study of cultures, comparative message systems and principles of cross-cultural communication. A focus on current issues having to do with cultural interactions. Students analyze cultural dynamics through ethnographic projects, films and simulations. This course is designed as preparation for SST or for living in settings unlike one's native home. |
| Core 104 | Learning Community | Learning Community explores how to shape a life of meaningful engagement and vibrant purpose now and in the future. We seek to grow in our understanding of vocation, networking, information literacy, leadership, and more. The student learning outcomes for this class are...1)Enhanced leadership and networking skills 2)Explored vocational goals and opportunities 3)Deepened your information literacy skills and ability to conduct research 4)Increased knowledge and skills in personal financial management and sustainability concerns 5)Developed your portfolio to bolster educational and career pursuits |
| Econ 375 | Ecology and Economics in Ecuador | Depth study on the interaction between ecology and economics. Intended to accommodate student interest and/or faculty expertise in specific business issues. Issues may vary from year to year and include international trips during May term. |
| Hist 217 | Geography and Culture | Survey of the world's geographic regions with emphasis on 1) the impact humans have had on the physical environment and 2) the origins of cultural variation in the world's regions. Includes regular discussion of current issues in world affairs and mapping skills. Required for students majoring in elementary education and secondary social studies. A Social World course in the Goshen Core. |
| Hist 375 | Tp: American Foodways | Concerning the history of the United States in general, and Indiana (and the Midwest) in particular: students will be able to accurately identify information about this history of encounters, contacts, conflicts and ideas. Students will also be able to identify the plots, motifs, and periodizations of this continental and regional past, and make sense of, and articulate, their own place in it. This course extends to toils such as cooking, gender, farming, and race. |
| Kin 255 | Camping and Recreation | Students will have hands-on experience in a wilderness setting. They will learn a variety of skills including: trip planning, map and compass reading, environmental care and study, spiritual growth and leadership skills. Other skills will be related specifically to either backpacking and/or canoeing. |
| Mus 220 | El Systema: Music for Social Change | Students will gain an understanding of the history and philosophy of El Sistema, the internationally renowned Venezuelan system of music education and youth/community development. With this foundation, students will explore how El Sistema?s philosophy has been adapted to new communities in the United States and abroad, including in the emerging school programs in Elkhart County, IN. Through this introduction to a unique social justice approach to music pedagogy, Goshen College students will be empowered to use El Sistema ideals and strategies in their internships and future teaching. The class will include guest presentations in person and remotely from El Sistema professionals. The course will lay the groundwork for internship options and requirements. |
| Nurs 408 | Community Health Nursing | Applies a synthesis of nursing, social, and public health theories to the assessment and care of aggregates in the community. Practice is collaborative with a focus on promoting and protecting the health of populations. Community health planning for aggregates or populations is done using a variety of agencies and resources in the community. The public health delivery system is differentiated from the private health care delivery system in its emphasis on social justice. Prerequisites: All 300-level clinical nursing courses. |
| PJCS 199 | Conversation on Race | The focus of the class will be “Conversations on Race and The Beloved Community.” Our collective work will be to understand and analyze the historical and societal context for continued structural racism, and the relationship between racism and other systems of oppression. |
| PJCS 210 | Transforming Conflict and Violence | Explores the potentially constructive nature of conflict, the destructive nature of violence and the relationship between the two. Examines various patterns of communication, conflict and violence and what is needed for transformation. Students will reflect on their own conflict styles, build their skills for peacemaking and examine their personal temptations for violence. Note: Because PJCS 210 introduces concepts developed in greater depth in PJCS 325, this course may not be taken concurrently with or following PJCS 325. A Peacemaking course in the Goshen Core. |
| PJCS 220 | Inside Out (Justice in Our Lives/Borders and Bridges) | An interactive course which addresses justice from the viewpoints of those both inside and outside the criminal justice system. Half of students in each class are inmates in a correctional facility and half are college students. The course is flexible in its specific content, shaped by the expertise of instructors. Recent offerings have been "Justice in Our Lives," focused on restorative justice and conflict transformation and "Borders, Boundaries and Bridges," focused on divisive issues such as immigration through the lens of theater. Special application required to enroll. |